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BULLETIN
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List of the North American *Andropogoneæ*.

Compiled from Prof. E. Hackel's Monograph of the *Andropogoneæ* in the Sixth Volume of De Candolle's "Monographiæ Phanerogamarum."

BY F. LAMSON SCRIBNER.

- IMPERATA BRASILIENSIS, Trin. (*Imperata caudata*, Chapm. So. Fl. Suppl. 668; *Syllepis Ruprechtii*, Fourn.)—Florida, (Chapman); Mexico (Galeotti 5678); Cuba, (Wright 3486). So. Am.
- IMPERATA HOOKERI, Rupr. (*I. caudata*, Scribn. Bull. Torr. Club, ix. 86 non Trin.; *I. brevifolia*, Vasey l. c. xiii. 26).—Mexico, (E. Palmer 444 a, 1886); N. Mex., (Wright 2001); Texas, (Drummond 283, Havard); Arizona, (Pringle); California, (Parish Brothers, 1031).
- IMPERATA EXALTATA, Brong. var. CAUDATA, Hack. (*I. caudata*, Trin.; *Syllepis polystachya*, Fourn.).—Mexico (ex Fourn.); So. Am.
- SACCHARUM OFFICINARUM, Linn. Spec. ed. l. 54. sub-var. BREVIPEDICELLATUM, Hack. in Mart. et Eichl. Fl. Bras. ii. pars 3, 256, t. 59, f. 2.—Mexico, Brazil, etc.
- SACCHARUM CAYENENESE, Benth. Journ. Linn. Soc. xix. 66, (*Eriochrysis Cayenensis*, Beauv.; Kunth En. Suppl. t. 38, f. 7).—Mexico, (Liebmann 1, 2).
- ERIANTHUS SACCHAROIDES, Michx. (sens ampl.) (*Andropogon alopecuroides*, L. *Saccharum alopecuroides*, Nutt.; *Erianthus saccharoides*, Michx. (sens str.); *E. giganteus*, Muhl.; *Spodiopogon foliatus*, Fourn.).—New Jersey, Illinois to Florida (Curtiss 3627) and westward to Louisiana and Texas (Vincent 134); Mexico (Bourgeau 2970).
- sub-spec. BREVIBARBIS, Hack. (*E. brevibarbis*, Michx.; *Saccharum brevibarbe*, Pers. Syn. i. 103 ?)—Georgia (ex Elliott); Carolina, (Curtis, Ravenel); Alabama, (Buckley); Arkansas (Engelmann).
- sub-spec. CONTORTUS, Hack. (*E. contortus*, Ell.; *Sacch.*

- contortum*, Nutt. *Andropogon alopecuroides*, Muhl. Descr. 285 ?)—Florida, (Chapm.); So. Carol. (Ravenel); N. Carol. (Rugel); Ind. Terr. (Vasey).
- ERIANTHUS TRINII, Hack. (*Saccharum giganteum*, Trin.; *Erianthus saccharoides*, var. *Trinii*, Hack. in Mart. et Eichl. Fl. Bras. ii. part 3, 258; *Spodiopogon vaginatus*, Fourn.?).
sub-var. GLABRINODES, Hack. l. c.—Mexico (Leibm. 39).
So. Am.
- ERIANTHUS STRICTUS, Baldw. (*Saccharum strictum*, Nutt.; *Pollinia dura*, Trin.; *Andropogon durus*, Steud.).—Florida, (Gray); Virginia (Rugel); Tennessee (Gattinger, Curtiss 3629); Alabama (Schott); Texas, (Neally).
- ISCHÆMUM LATIFOLIUM, Kunth. (*Andropogon diatherus*, Steud., *Ischaemopogon latifolius*, Griseb. Flor. West. Ind. 560).—Mexico (Schiede 953, Bourg. 2203, Leibm. 12.); So. Amer.
- EREMOCHLOA LEERSIOIDES, Hack. (*Ischæmum leersioides*, Munro in Proc. Amer. Acad. iv. 363; Thurber in S. Wats. Bot. Calif. ii. 262).—Note: *Eremochloë*, S. Watson in Bot. King Exped. p. 382 (1871) belongs to the Festuceæ. *Eremochloa* of Büse in Pl. Jungh. i. 357, antedates by many years that of Watson, and Hackel has changed the latter to *Blepharidachne*—*B. Kingii* and *B. Bigelovii*, Hack.=*E. Kingii* and *E. Bigelovii*, S. Watson.
- ROTTBÆLLIA COMPRESSA, L., var. FASCICULATA, Hack. (*R. fasciculata*, Lam.; *Hemarthria fasciculata*, Kunth.; *H. caudiculata*, Steud.).—Mexico (Fourn); Texas, near Laredo (Havard).
- ROTTBÆLLIA CYLINDRICA, Torr. (Bot. Whipl. Expd. 103), Chapm. So. Fl. 579, *Tripsacum cylindricum*, Michx. Fl. Bor. Am. i. 60).—Florida (Michx., Chapm.); Louisiana (Drummond 362); Texas (Hall 843, C. Wright); Arkansas (Engelmann); Indian Territory (Palmer 400).
- ROTTBÆLLIA RUGOSA, Nutt. Gen. i. 84.—Maryland (Commons); Delaware (Canby); N. Carolina (Curtis); Georgia (ex Nuttall);
var. CHAPMANI, Hack. (*R. rugosa*, Chapm. So. Flor. 579).—Florida (Chapm., Curtiss 3622).
- ROTTBÆLLIA CORRUGATA, Baldw. in Sill. Journ. i. (1819), 355. (*R. tessellata*, Steud. Synop. i. 362).—Georgia (ex Baldw.); Florida (ex Chapm.); Alabama (Mohr); Louisiana (Riehl).

- var. AREOLATA, Hack. Low damp pines near Mobile (Mohr).
- ROTTBÆLLIA AURITA, Steud. Synop. i. 361. Sub-spec. STIGMOSA, Hack. (*R. stigmosa*, Trin. *Apogonia ramosa*, Fourn. Pl. Mex. ii. 63).—Mexico, (Bourg. 2647, Liebm. 116); United States (ex Fourn.).
- MANISURUS GRANULARIS, L. fil. Nov. Gram. Gen. (1779) 37. fig. 4-7. (*Cenchrus granularis*, L. *Manisurus polystachya*, Beauv., Fl. Ow. et Ben. t. 14).—Mexico (Schaffner 112, 131, etc). Arizona (Pringle); Louisiana, Carolina (Bosc). Distributed throughout the tropical and sub-tropical regions of the world.
- TRACHYPOGON POLYMORPHUS, Hack. in Mart. et Eichl. Fl. Bras. ii. pars 3, 263.
- var. CANESCENS, Hack. l. c. (*T. canescens*, Nees; *Andropogon canescens*, Kunth).—Mexico (ex Fourn. Pl. Mex. ii. 65).
- var. MONTUFARI Hack. l. c. *Andropogon Montufari*, Kunth in Humb. et Bonpl. Nov. Gen. i. 184; *Andropogon stipoides*, Kunth, Enum. Pl. i. 487).—Mexico (Schiede, 936, Schaffner, 147).
- sub-var. SECUNDUS, Hack. (*Trachypogon Montufari*, Nees.; *Andropogon secundus*, Kunth, Enum. Pl. i. 487).—Texas (Drummond 2. No. 342); Arizona (Pringle); Mexico (Palmer 303) (Bourgeau 3133, 3358); So. Am.
- var. GOUINI, Hack. (*T. Gouini*, Fourn. Pl. Mex. ii. 66).—Mexico (Gouin).
- var. PLUMOSUS, Hack. l. c. 265. (*Andropogon plumosus*, Humb. et Bonpl. in Willd. Spec. iv. 918. *Trachypogon plumosus*, Nees.).—Mexico (Liebm., Schaffner, 257); So. America.
- var. DISSOLUTUS, Hack. (*Andropogon dissolutus*, Steud. Syn. i. 381; *Trachypogon Müllerii*, Fourn. Pl. Mex. ii. 66).—Mexico (Aschenborn, 663; Fr. Müller, 2085).
- var. KARWINSKYI, Hack.—Mexico (Karwinsky).
- ELIONURUS TRIPSACOIDES, Humb. et Bonpl. ap. Willd. Spec.

- Pl. iv. 941. (*E. tripsacoides*, Kth. in Humb. et Bonpl. N. Gen. i. 192. t. 62; *Rottboellia ciliata*, Nutt. Gen. i. 83; *Andropogon Nuttallii*, Chapm. So. Flor. 580).—Georgia (ex Nutt.); Florida (Curtiss, 3630); Louisiana (Drummond, 369); Texas (Drum., 344); Mexico (Schiede, 942).
- var. CILIARIS, Hack. (*E. ciliaris*, Kunth in Humb. et Bonpl. N. Gen. i. 193, t. 63).—Mexico (Liebm. 610, Schaffn. 145, Bourg. 2844).
- var. SERICEUS, Hack.—Mexico (Liebm. 656).
- ELIONURUS BARBICULMIS, Hack.—W. Texas (Wright 804, ex p.); N. Mex. (Wright 2106); Arizona (Lemmon 2926, Rothrock 638).
- ANDROPOGON BREVIFOLIUS, Sw. Prodr. fl. Ind. occ. 26. *A. debilis*, Kth.; *A. floridus*, Trin).—Mexico, (Schaffner, 109, etc.). Widely distributed in the tropical, rarely subtropical regions.
- ANDROPOGON MALACOSTACHYS, J. S. Presl, in C. B. Presl, Reliq. Haenk. i. 337.—Mexico (Hænke). *A. malacostachyum*, Fourn, belongs to *A. hirtiflorus*, Kth.
- ANDROPOGON SEMIBERBIS, Kunth. (*A. vaginatus*, J. S. Presl).—Mexico (Hænke).
- sub-var. *pruinatus*, Hack. (*A. tener*, Curtiss N. Am. Pl. 3633, non Kth.).—Florida (Curtiss).
- ANDROPOGON HIRTIFLORUS, Kunth, Revis. Gram. ii. 569. t. 198.
- var. OLIGOSTACHYUS, Hack. (*Andropogon oligostachyus*, Chapm.; *A. malacostachyus*, Fourn.).—Florida (Chapm.); Mexico (Schaffner 327); Arizona (Pringle).
- var. FEENSIS, Hack. (*A. Feensis*, Fourn.).—Mexico (Parry & Palmer 966 etc.); Arizona (Lemmon). Schaffner No. 327 is intermediate between one variety and the other.
- ANDROPOGON MYOSURUS, J. S. Presl in C. B. Presl, Reliqu. Hænk. i. 337.—Mexico (Hænke); (Palmer 1886, No. 506).
- ANDROPOGON CIRRATUS, Hack. in Flora, 1885, 119.—Western Texas (Wright 804 ex p. et 2105); N. Mex. (Greene). Allied to *A. tener*, Kth.
- ANDROPOGON TENER, Kunth (sens. ampl.).—Florida (Chapm.); Alabama (Mohr); Louisiana (in Herb Trin.); Mexico (Palmer).

- sub-var. SCABRIGLUMIS, Hack. — Mexico (Bourgeau 3134).
- ANDROPOGON IMBERBIS, Hack. (*Flora*, 1885, 119, ampl.).
- var. MUTICUS, Hack. (*Rottbællia Salzmanni*, Trin., *Apogonia glabrata*, Fourn.).—Mexico (Liebm. 623, 712, Schaffn. 143, 268, Bourgeau, 2757).
- ANDROPOGON SCHOTTII, Rupr.
- sub-var. ASPERIGLUMIS, Hack.—Mexico (Palmer).
- ANDROPOGON SCOPARIUS, Michx., (*A. scoparius*, Michx. sens str.; Vasey Agr. Grasses, t. 25; *A. purpurascens*, Muhlb.; *A. dissitiflorus*, Trin. non Michx.). The forms or sub-varieties enumerated are 1, *typica*; 2, *flexilis* (*A. flexilis*, Bosc.); 3, *cæsia*; 4, *serpentina*; 5, *simplicior*; 6, *lolioides* (*A. lolioides*, Fourn.).—Eastern U. S. and west to the Saskatchewan and south to Texas, Mexico and Cuba.
- sub-spec. MARITIMUS, Hack. (*A. maritimus*, Chapm. So. Flor. Suppl. 668).
- var. DIVERGENS, Hack.—Texas.
- ANDROPOGON CONDENSATUS, Kth. in Humb. et Bonpl. Nov. Gen. i. 188.
- var. PANICULATUS, Hack. (*A. scoparius*, J. S. Presl. non Michx.; *A. paniculatus*, Kth.; *A. densus*, Desv. ex Fourn.; *A. Lhotzkyi*, Steud., Fourn. Pl. Mex. ii. 61.; *A. Lechleri*, Steud., *A. bicornis*, Benth. Pl. Hartw. 263, non L.).—Mexico (Hænke, Schiede 938, Bourgeau 2646, Schaffn. 261, Fr. Müller 2032); So. Amer.
- sub-var. EXSERENS, Hack.—Mexico (Karwinsky).
- ANDROPOGON GRACILIS, Spreng.—South Florida (Garber); West Indies.
- ANDROPOGON FASTIGIATUS, Sw. Prodr. 26.—Mexico (Palmer).
- ANDROPOGON MACROURUS, Michx. (*A. macrourus*, Michx. sens str.; Vasey Agric. Grasses, t. 26).—North America from N. Y. south to Florida and west to Texas and Southern California (Parish Brothers); Mexico (Palmer 446, 1886; Müller 2033; Liebm. 56); Guatemala (Friedrichsthal 1445); also in the West Indies.
- var. ABBREVIATUS, Hack.—New Jersey (Gray); Carolina (Rugel).

- var. *HIRSUTIOR*, Hack.—Alabama near Mobile (Mohr).
 var. *GLAUCOPSIS*, Ell. (*A. glaucus*, Muhl.?).—S. Carolina (Elliott); Florida (Curtiss 3639^b).
 ver. *CORYMBOSUS*, Chapm. ap. Curtiss exs.—Florida (Curtiss 3639^c).
- ANDROPOGON VIRGINICUS**, L. Spec. 1046, nec ed. 2; A. Gray! Man. ed. 5, 652 (Non *A. Virginicus*, Trin. nec Hack. in Mart. et Eichl. Flor. Bras.).
 var. *VIRIDIS*, Hack. (*A. dissitiflorus*, Michx.; *A. Louisianæ*, Steud.; *Cinna lateralis*, Walter, Carol. 59).
 sub-var. *STENOPHYLLUS*, Hack.—Florida (Chapm.); Alabama (Mohr.).
 sub-var. *DITIOR*, Hack. (*A. macrourus*, var. *viridis*, Curtiss, N. Am. Pl. 3639^d).—Florida; Mexico (Schiede 937, Liebm. 72).
 var. *GLAUCUS*, Curtiss, N. Am. Pl. No. 3638^b —Florida.
 var. *DEALBATUS*, Mohr., Mss.—Alabama (Mohr).
 var. *TETRASTACHYUS*, Hack. (*A. tetrastachyus*, Ell.; *A. Curtisianus*, Steud. Synop. i. 390).—Florida (Curtiss 3636); Georgia, Carolina, Alabama.
- ANDROPOGON LIEBMANNI**, Hack. in Flora 1885, 132, *A. macrothrix*, Fourn. Pl. Mex. ii. 60 (quoad Bourg. 2376) non Trin.). Mexico (Liebm. 590, Bourgeau 2376).
 sub-var. *RARIPILUS*, Hack.—Mexico (Palmer 227, 1886).
 sub-var. *MOHRII*, Hack.—Alabama (Mohr).
- ANDROPOGON LONGIBERBIS**, Hack. l. c. 131, (*A. tetrastachyus*, var. *distachyus*, Chapm. So. Fl.).—Florida (Garber).
- ANDROPOGON ELLIOTTII**, Chapm. So. Fl. 581, excl. syn.—Florida (Chapm.) Georgia, Carolina (ex Chapm.); Maryland (Commons); Delaware (Commons); Alabama (Mohr); Missouri et Arkansas (Engelmann, Riehl. No. 528).
 var. *GRACILIOR*, Hack.—Florida (Curtiss 3636^a).
- ANDROPOGON BRACHYSTACHYUS**, Chapm. So. Flor. Suppl. 668.—Florida (Curtiss 3632).
- ANDROPOGON ARCTATUS**, Chapm. in Bot. Gaz. 1878, 20; So. Flor. Suppl. 668 (in part).—Florida (Chapman).
- ANDROPOGON BICORNIS**, L. Throughout tropical America, Mexico (Hartw. 521, Liebm. 60).

- ANDROPOGON LEUCOSTACHYUS, Kunth. (*A. Virginicus*, Trin. *A. leucostachyus*, Kth. sens. str. *A. Virginicus*, L. Spec. ed. 2, 1482, ex parte, nec ed. 1; *A. lanuginosus*, Kth. *Euklastaxon tenuifolius*, Steud., *Andropogon Domingensis*, Fourn.).—Mexico (Schaffn. 3^a) So. Amer. and W. Ind.
- ANDROPOGON ARGYREUS, Schult. Mant. ii. 450 (*A. argenteus*, Ell., *A. Muhlenbergianus*, Schult.).—Maryland, Delaware to Florida (Curtiss 3637) and west to Texas and Colorado (ex Wats.).
- ANDROPOGON CABANISII, Hack. in Flora 1885, 133.—Pennsylvania and Florida (Cabanis in herb. Berol.); Florida (Chapm. mixt. mis. c. *A. arctato*).
- ANDROPOGON BOURGÆI, Hack. in Flora 1885, 134.—Mexico (Bourgeau 2645, F. Müll. 1393 ex p.; Liebm. 505).
- ANDROPOGON PROVINCIALIS, Lam. Encycl. Bot. i. 376 (*A. furcatus*, Muhl. ap. Willd.).
- var. FURCATUS, Hack.—From New Brunswick to Florida, Texas, Colorado, Saskatchewan and Hudson's Bay.
- var. LINDHEIMERI, Hack.—Texas (Lindheimer 741).
- var. PYCNANTHUS, Hack.—Texas (Vincent 69); New Mexico (Brandegge).
- ANDROPOGON HALLII, Hack. in Sitzungsber. Ak. Wiss. Wien. 89 (1884) 127.—Arizona (Lemmon); Montana (Ward).
- var. FLAVEOLUS, Hack. l. c.—Colorado (Hall and Harbor 651).
- var. INCANESCENS, Hack. l. c.—Colorado (Hall and Harbor 651).
- var. MUTICUS, Hack.—Colorado (Vasey).
- ANDROPOGON WRIGHTII, Hack. in Flora 1885, 139.—New Mexico (C. Wright 2104).
- ANDROPOGON HIRTIFOLIUS, J. S. Presl.—Mexico (*A. Schaffneri*, Griseb. ap. Fourn.). (Schaffner 126, 325, Liebm. 20, Hænke).
- sub-var. PUBIFLORUS, Hack. (*A. pubiflorus*, Fourn.) (Schaffn. 165).
- ANDROPOGON SACCHAROIDES, Sw. Prod. Fl. Ind. Occ. 26.—Mexico (Liebm. 528).
- var. BARBINODIS, Hack. (*A. barbinodis*, Lag.; *A. argenteus*, DC.).—Mexico (Maivet in herb. DC., Liebm. 82).

- var. TORREYANUS, Hack. (*A. glaucus*, Torr. in Ann. Lyc. N. Y. i. 157.; *A. Jamesii*, Torr. in Marcy's Rept. 302. *A. Torreyanus*, Steud. cfr. Scribner, Bull. Torrey Bot. Cl. ix. 52).—Texas (Reverchon, Curtiss 3635); Colorado (Brandege); Arizona (Rusby).
- var. SUBMUTICUS, Vasey Ms.—Texas (Neally).
- var. LAGUROIDES, Hack. in Mart. et Eichl. Flor. Bras. ii. pars. 3, 293. (*A. laguroides*, DC.).—Mexico (Bourgeau 2969, Schaffn. 130, 319, Palmer); So. Amer.
- sub-spec. LEUCOPOGON, Hack.—Mexico (Aschenborn 141, Schaffn. 31, 320, Berlandier 641 ex parte).
- sub-var. PERFORATUS, Hack.—Mexico (Bourgeau 674, 2374, Berlandier 641 ex p., Liebm. 87); Texas (Lindheimer 1161).
- sub-var. PALMERI, Hack.—Mexico (Palmer 305, 1886 coll.)
- ANDROPOGON SCHLUMBERGERI, Fourn. Pl. Mex. ii. 59.—Mexico (Fr. Müller 2016, Liebmann 18).
- ANDROPOGON SORGHUM, Brot. Fl. Lus. i. 88 sens. ampl.
- var. HALEPENSIS, Hack. sens. str. (*Sorghum halepense*, Pers.).
- sub-var. LEIOSTACHYUS, Hack. Sub-spontaneous in the Southern United States, Mexico, Cuba, etc.
- sub-spec. SATIVUS, Hack. [Includes cultivated varieties of Sorghum].
- ANDROPOGON NUTANS, L. Spec. ed. i. 1045, non Mantissa 2. *Sorghum nutans*, A. Gray, Man. ed. 5, 652. A most polymorphous species.
- var. AGROSTOIDES, Hack. (*Andropogon Francavilleanus*, Fourn. *Chrysopogon Francavilleanus*, Hemsley in Biol. Cent. Amer. iii. 530).—Mexico (Bourgeau 2871, Liebmann 713).
- var. STIPOIDES, Hack. (*Androp. stipoides*, Kunth.; *A. Humboldtianus*, Steud.; *A. rufidulus*, Steud.; *Chrysopogon stipoides*, Benth. in Journ. Linn. Soc. xix. 73, non Trin.).—Mexico (Schiede).
- var. AVENACEUS, Hack. (*A. avenaceus*, Michx.; *A. ciliatus*, Ell.; *Sorghum avenaceum*, Chapm.; *Chrysopogon*

- avenaceus*, Benth.).—N. America, in nearly all the United States, especially southward, Mexico and south to Bolivia and Brazil.
- var. LINNÆANUS, Hack. (*Sorghum nutans*, Chapm., *Chrysopogon nutans*, Benth.).—North Carolina to Florida (Chapm.); Texas (Reverchon); Mexico (Liebmann 25).
- var. INCOMPLETUS, Hack. (*A. incompletus*, J. S. Presl; *A. Geleottii*, Fourn.).—Mexico (Hænke; Liebm. 34; Bourgeau 3359; Müller 2082; Galeotti 5685; Palmer 590, coll. 1886).
- var. SCABERRIMUS, Hack., sub-var. ELONGATUS, Hack. —Mexico (Palmer 511, coll. 1886).
- ANDROPOGON UNILATERALIS, Hack. (*Sorghum secundum*, Chapm. So. Flor. 583).—Florida (Chapm., Curtiss 3644).
- ANDROPOGON SQUARROSUS, L. fil. *Andropogon muricatus*, Retz.; *Vetiveria odorata*, Virey.—[Louisiana, spontaneous along the Mississippi (Langlois)].
- ANDROPOGON PAUCIFLORUS, Hack. (*Sorghum pauciflorum*, Chapm. Bot. Gazette 1878. 20. So. Flor. Suppl. 668).—Florida (Chapman, Garber, Curtiss No. 3644^a).
- ANDROPOGON MELANOCARPUS, Ell. Sk. i. 146. (*Heteropogon acuminatus*, Trin.; *H. Roylei* Nees in Steud. Synops. i. 367). —Florida (Curtiss N. Am. Pl. 3641); Georgia (Ellis); Mexico (Palmer); throughout the tropical zone.
- ANDROPOGON CONTORTUS, L. (*Heteropogon hirtus*, Pers. *H. contortus*, R. & S.).—Arizona (Pringle); Mexico (Bourgeau 3199, 2374; Schaffn. 46 and 127).
- sub-var. SECUNDUS, Hack. (*A. Allionii*, Kunth. in Humb. et Bonpl. N. Gen. i. 185. non DC.; *A. firmus*, Kth. Enum. i. 486).—Mexico (Bonpl., Hænke, Hartweg, 249).
- ANDROPOGON BRACTEATUS, Willd. (*Cymbopogon foliosus*, R. & S. *Hyparrhenia foliosa*, Fourn. Pl. Mex. ii. 67).—Mexico (Liebm. 46); and South America.
- ANDROPOGON RUPRECHTI, Hack. (*A. anthistirioideus*, Rupr.; *Hyparrhenia Ruprechtii*, Fourn l. c.).—Mexico (Galeotti 5697; Liebm. 650; Palmer 513, coll. 1886); tropical Africa.